

CREATING MIND MAPS USING MIRO

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WHAT IS MIND MAPPING?

- ◉ Mind mapping is a highly effective way of getting information in and out of your brain.
- ◉ Mind mapping is a creative and logical means of note-taking and note-making that literally "maps out" your ideas.
- ◉ They have a natural organizational structure that radiates from the centre and use lines, symbols, words, colour and images according to simple, brain-friendly concepts.
- ◉ Mind mapping converts a long list of monotonous information into a colourful, memorable and highly organized diagram that works in line with your brain's natural way of doing things.

- Mind mapping is a slightly different but complementary technique that is concerned with the organisation of ideas and concepts.
- Mind mapping (or “idea” mapping) has been defined as ‘visual, *non-linear* representations of ideas and their relationships’ (Biktimirov and Nilson 2006).
- Mind maps comprise a network of connected and related concepts. Any idea can be connected to any other.
- Free-form, spontaneous thinking is required when creating a mind map, and the aim of mind mapping is to find creative associations between ideas.

WHAT IS A MIND MAP?

A Mind Map is a visual thinking tool, ideal for brainstorming, exploring ideas and presenting information in a uniquely visual way.

A Mind Map is a diagram for representing tasks, words, concepts, or items linked to and arranged around a central concept or subject using a non-linear graphical layout that allows the user to build an intuitive framework around a central concept.

AIM OF MIND MAPPING

- The over-riding aim of all mapping techniques is similar.
- If students can represent or manipulate a complex set of relationships in a diagram, they are more likely to understand those relationships, remember them, and be able to analyse their component parts.
- This, in turn, promotes “deep” and not “surface” approaches to learning (Biggs 1987; Entwistle 1981; Marton and Saljo 1976 and Ramsden 1992).

BENEFITS OF MIND MAPPING

Mind mapping basically avoids dull, linear thinking, jogging your creativity and making note taking fun again.

A Mind Map is a diagram for representing tasks, words, concepts, or items linked to and arranged around a central concept or subject using a non- linear graphical layout that allows the user to build an intuitive framework around a central concept.

USE OF MIND MAPPING

- The main use of mind mapping is to create an association of ideas.
- However, another use is for memory retention—even if the advantages in the case of mind mapping might be marginal (Farrand et al. 2002).
- It is generally easier to remember a diagram than to remember a description.
- There is empirical support for the use of mapping in enhancing, retaining and improving knowledge.
- Evidence from the cognitive sciences shows that visual displays do enhance learning (Vekiri 2002; Winn 1991).

CAN USE MIND MAP FOR.....

- Brainstorming (individually or in groups)
- Problem solving
- Planning a particular topic
- Researching and Jot down information from multiple sources from pieces in to whole
- Presenting information from a single Platform
- Gaining insight on complex subjects
- Jogging your creativity
- Note Taking
- Studying and Memorization

THE FIVE ESSENTIAL CHARACTERISTICS OF MIND MAPPING

- ◉ The main idea, subject or focus is crystallized in a central image.
- ◉ The main themes *radiate* from the central image as 'branches'.
- ◉ The branches comprise a key image or key word drawn or printed on its associated line.
- ◉ Topics of lesser importance are represented as 'twigs' of the relevant branch.
- ◉ The branches form a connected nodal structure.

The Power of Images

- ◉ There is a well-known quote, "A picture is worth a thousand words".
- ◉ We associate and remember images because they make use of a massive range of your cortical skills, especially imagination.
- ◉ Images can be more evocative than words, more precise and potent in triggering a wide range of associations, thereby enhancing creative thinking and memory.

Tony Buzan and Mind Mapping

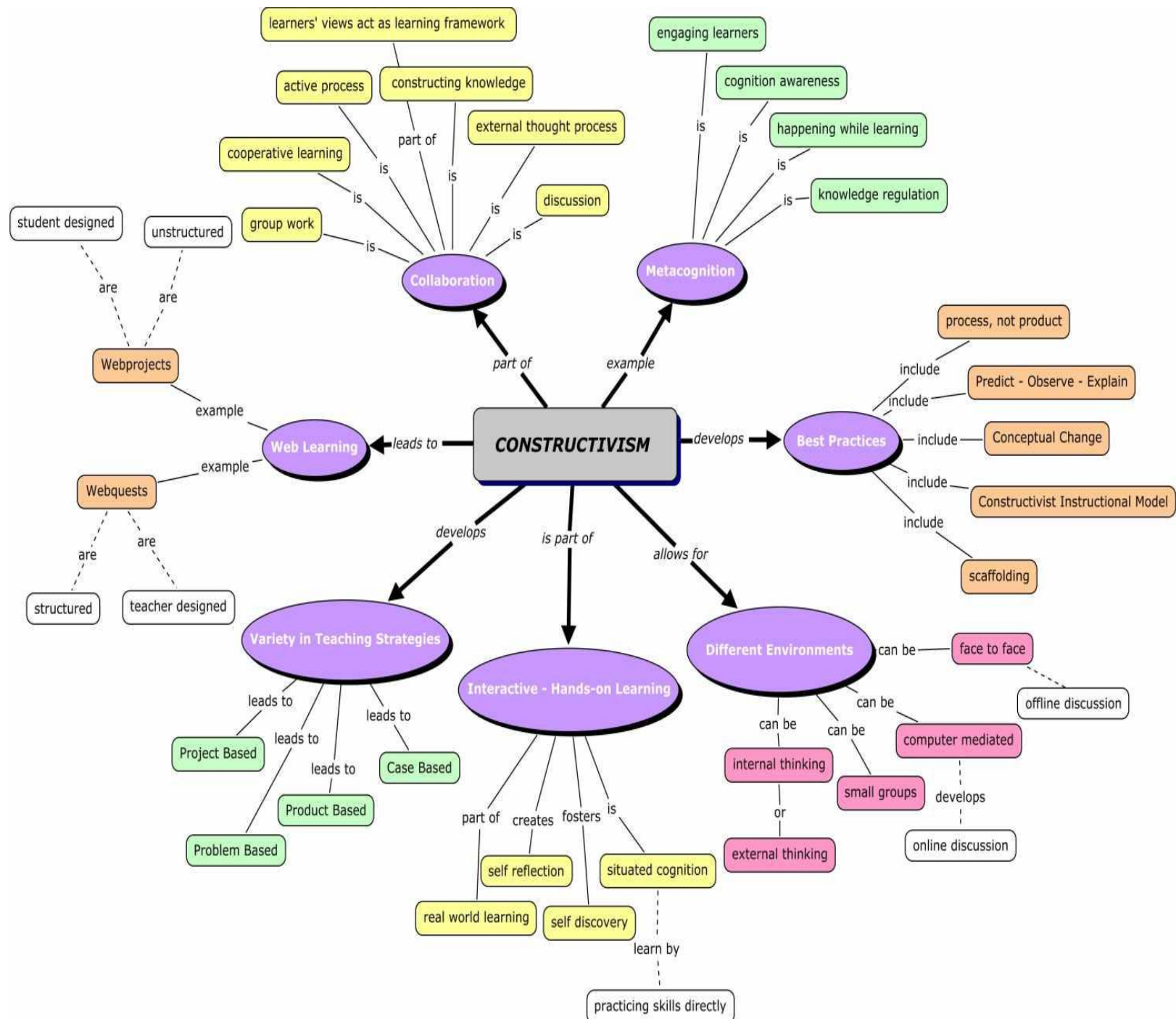
- ◉ Although people have been creating maps using an image-centered radial graphic organization technique for centuries, British psychology author Tony Buzan has made a claim to the origin of the Mind Map.
- ◉ He argues that 'traditional' outlines require that the reader scans the information from left to right and top to bottom, whilst the brain's natural preference is to scan the entire page in a non-linear fashion.
- ◉ Buzan also uses widespread assumptions about the cerebral hemispheres in order to promote the exclusive use of mind mapping over other forms of note making.

Types of Mind Maps

- ◉ Mind maps are mainly used in the early stage of a project or program to analysis the subject or solve problems. According to different purposes, mind maps can be classified into 3 types:
- ◉ Library mind maps for information organizing
- ◉ Presentation mind maps for presenting ideas and projects
- ◉ Tunnel timeline mind maps for organizing or making a project plan

Mind Map Type 1: Library Mind Maps

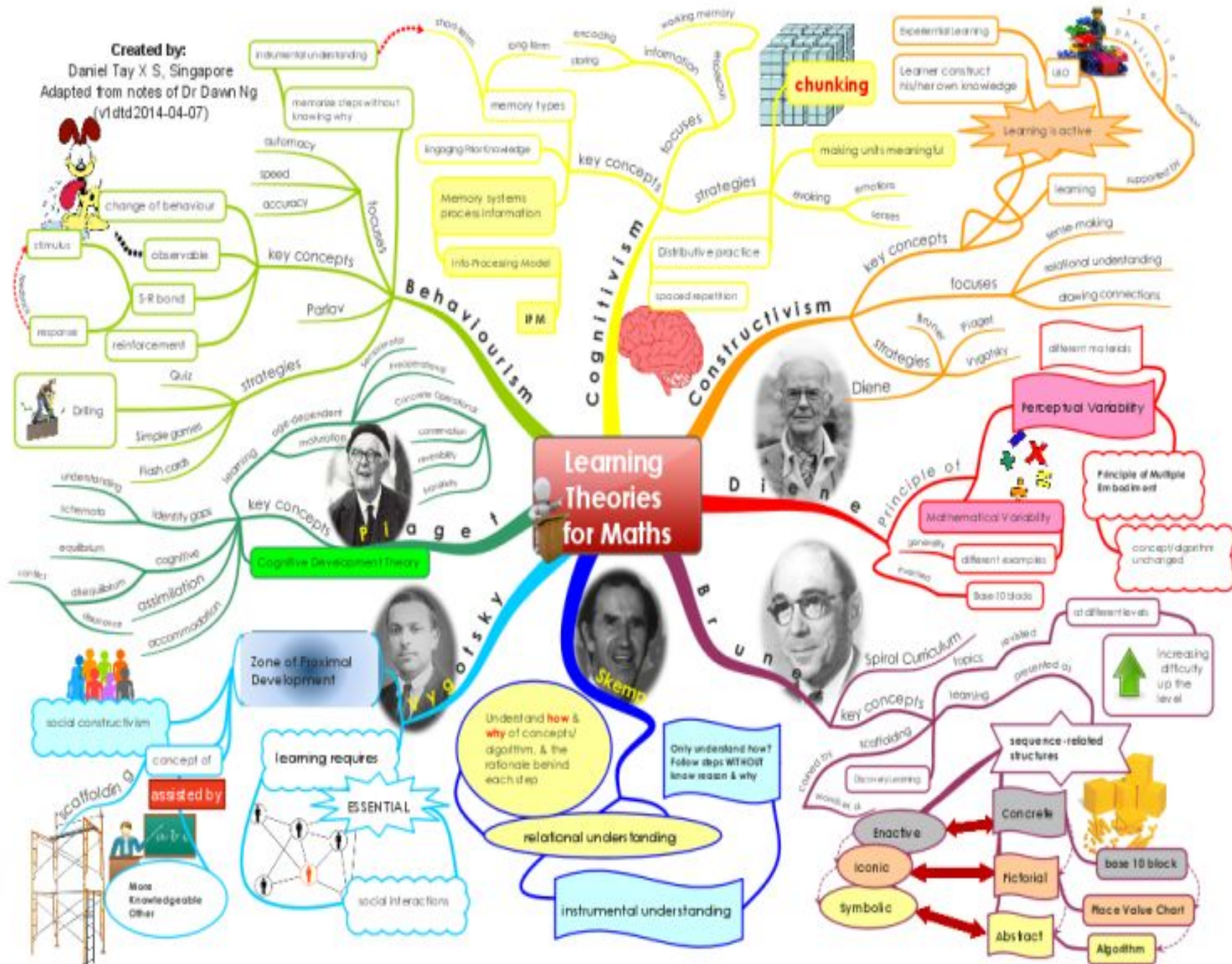
- Library mind maps can also be called reference maps.
- This type of mind maps are mainly used to organize information, so that you can have a clear and visual understanding of the subject without missing anything out.
- The purpose of library mind maps is to sort and organize the collected information for a better understanding of the subject.
- When creating a library mind map, first step is to put all the information together and organize it in a map tree. The map will show how each information linked to each other and how they can serve the main idea.



Mind Map Type 2: Presentation Mind Maps

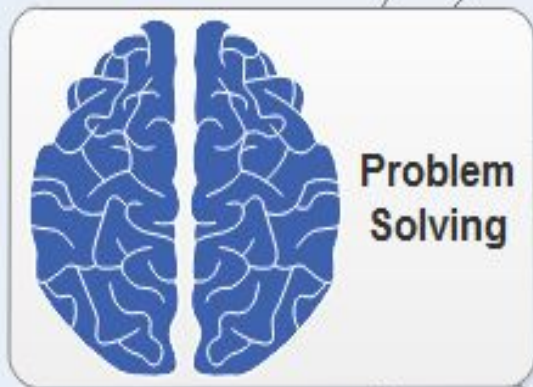
- ◉ This type of mind map is used to present the process of an idea to the audience.
- ◉ Presentation mind maps illustrate the way that the project goes in order to track the steps.
- ◉ Therefore the focus of a presentation mind map is the audience instead of the topic.
- ◉ How the information should be positioned in the map depends on whether the audience can understand it or not.
- ◉ If the audience can follow with the way you are presenting, then the map is well structured. Thus, your presentation can be well accepted by the audience.
- ◉ This type of mind map can be used for explaining an activity or a training session.

Created by:
Daniel Tay X S, Singapore
Adapted from notes of Dr Dawn Ng
(v1 dtd 2014-04-07)



Mind Map Type 3: Tunnel Timeline Mind Maps

- ◉ This type of mind maps are also simplified as planning mind maps, they are mainly used for project strategy, program plan, or problem solving.
- ◉ Tunnel timeline mind maps are designed to achieve a goal.
- ◉ The purpose of this type of mind maps is to visualize success.
- ◉ The center (main topic) of the mind map is the outcome that you pursuit, and each sub-topic represents a path to achieve that outcome.



Problem Solving

1

What's the problem

Think about the real purpose

Find out the gap

2

Analysis of current situation

Vague concept

Quantification

4

Find out the reasons

Why?

Use tools to analysis

Find out the reason from the phenomenon

5

Solutions

Who

Where

When

6

Implement

Check effect of implementation

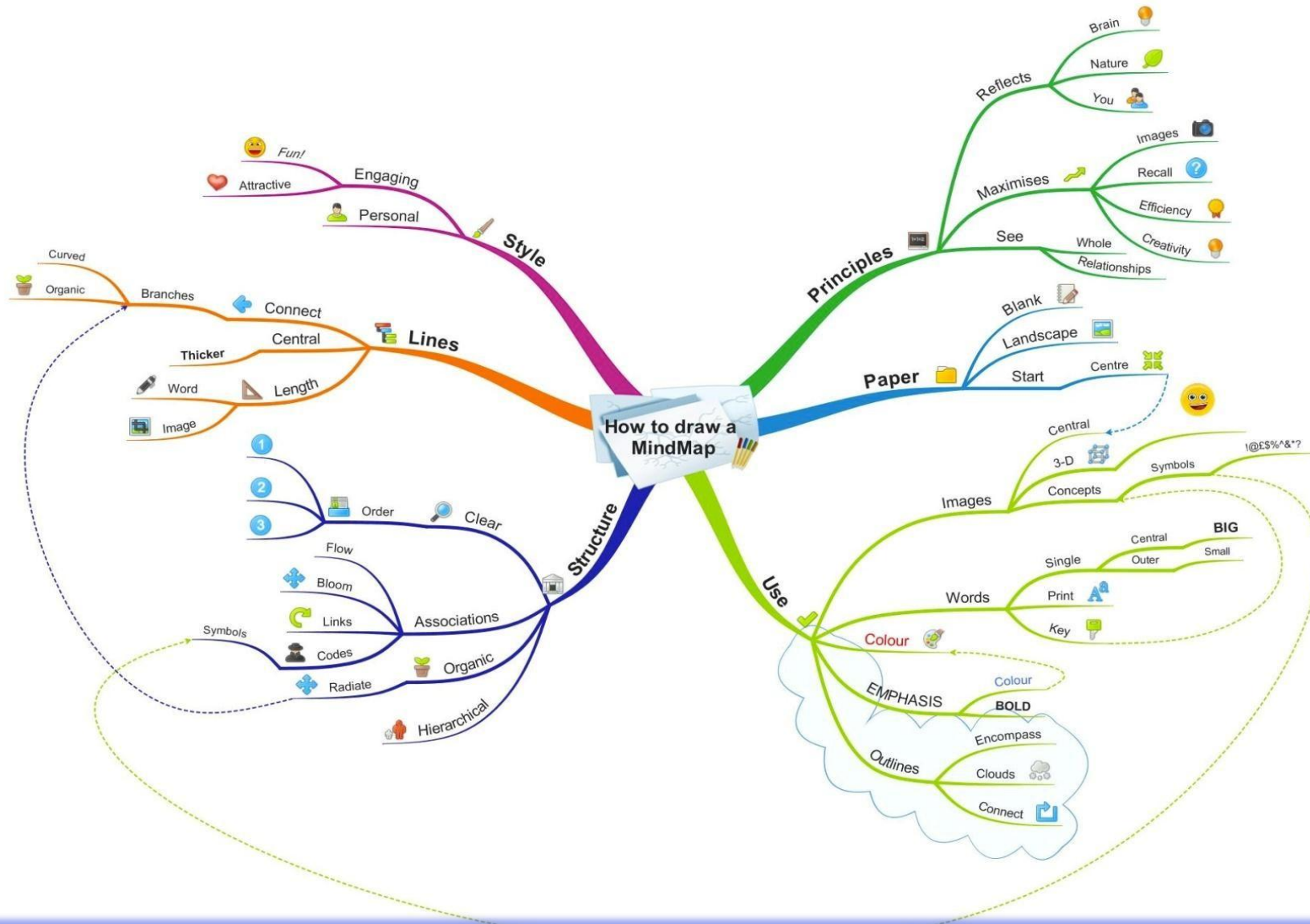
Stop useless solution

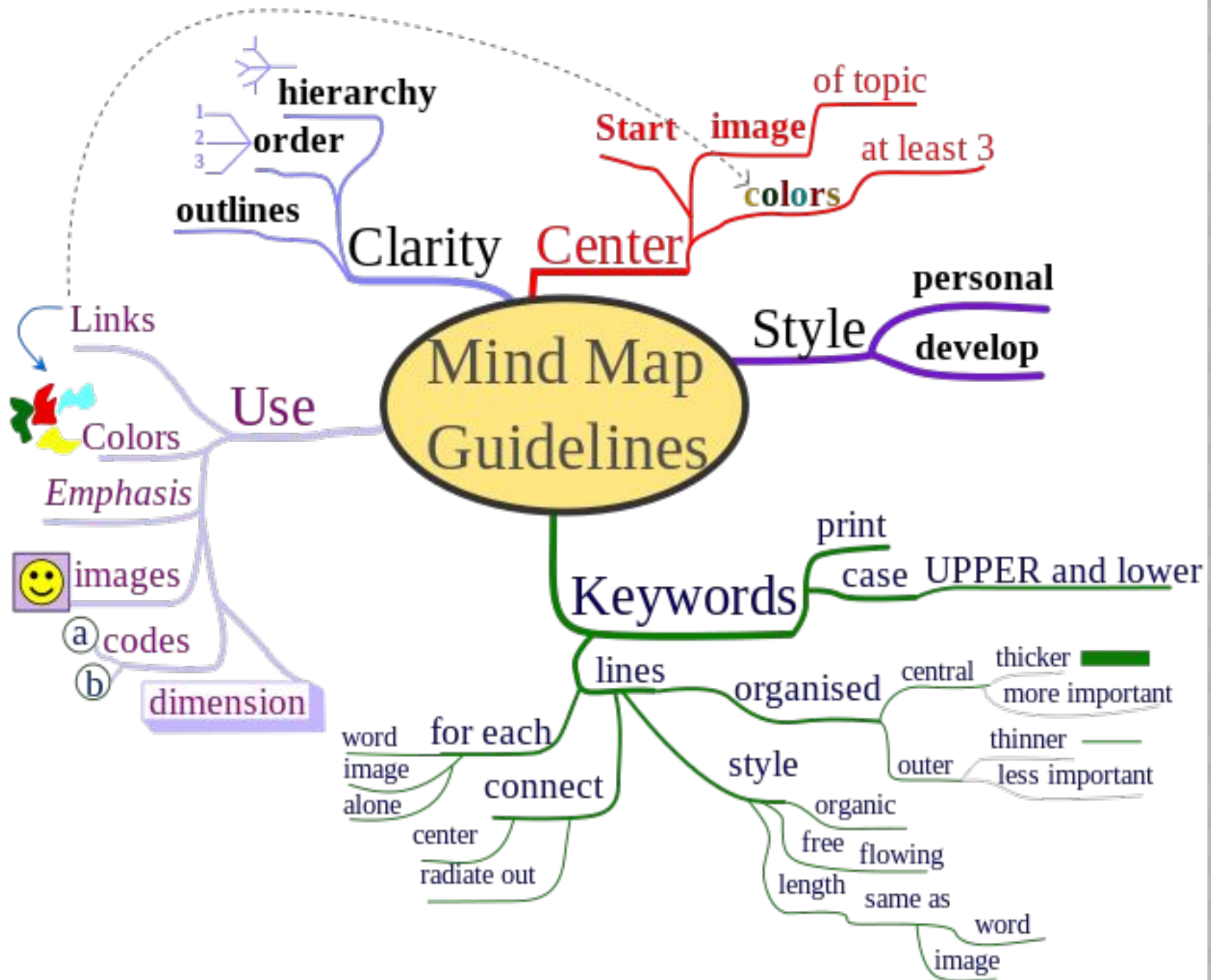
Finish

HOW TO MAKE A MIND MAP

- ◉ Think of your general main theme and write that down in the centre of the page. i.e. Food
- ◉ Figure out sub-themes of your main concept and draw branches to them from the centre, beginning to look like a spider web.
- ◉ Make sure to use very short phrases or even single words.
- ◉ Add images to invoke thought or get the message across better.
- ◉ Try to think of at least two main points for each sub-theme you created and create branches out to those.

SAMPLE OF MIND MAP





TOOLS OF CREATING MIND MAP

MindMeister

Imind Map

Coogle

X-Mind

Free Mind

Miro

Popplet

Text2

Mind Note

Mindo

Big Mind

Mind Genius

Mind manager

Free plane

The Brain

Scapple

Mapul

CoMapping

Mind App

Mind Map

Mind 43

Mindomo

Storm Board

Iblue Sky

MIRO

- ◉ Miro is a digital “whiteboard” platform that can make it easy to brainstorm and collaborate with members of your team or innovation program.
- ◉ The software allows you to create notes and designs, move things around, and communicate through embedded video calls or online chats. The tool also comes with a series of pre-built templates that can inspire or serve as a starting place for your own project work
- ◉ *Miro has been widely used by million users for creating mind maps for concept building.*

SOME COMMON USES OF MIRO INCLUDE:

- ◉ Creating a list of ideas or topics to focus on for an important project
- ◉ Developing a user story or customer journey map
- ◉ Wireframing a new product concept or idea
- ◉ Laying out a roadmap or strategy for an innovation workshop or program
- ◉ Running a more engaging or innovative meeting for your team in an agile culture
- ◉ Miro can connect to some other common virtual working tools, such as Google Drive, Slack, Asana, Trello, and SurveyMonkey.

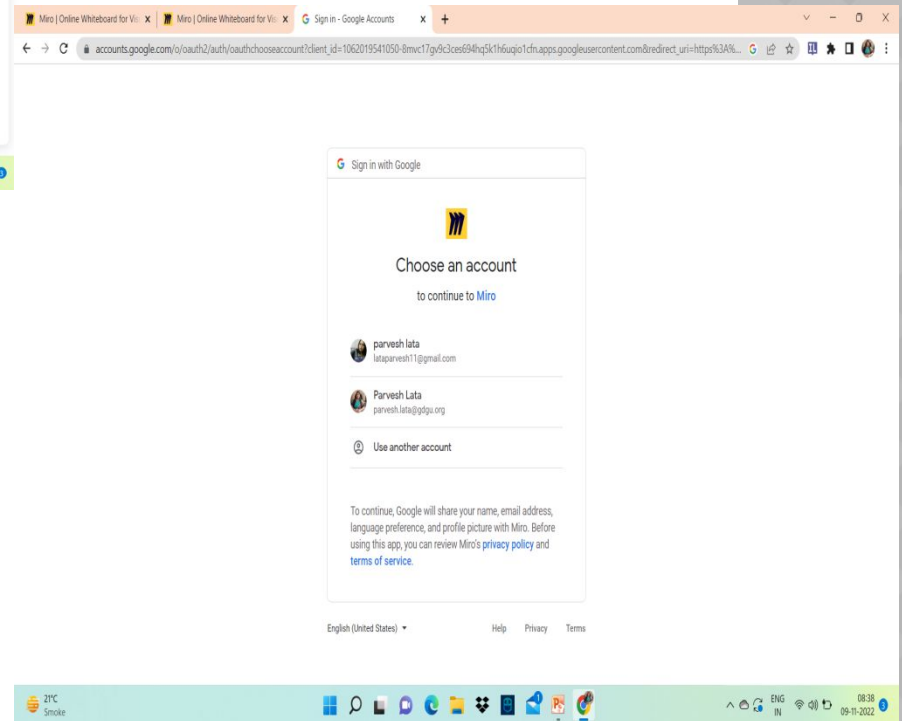
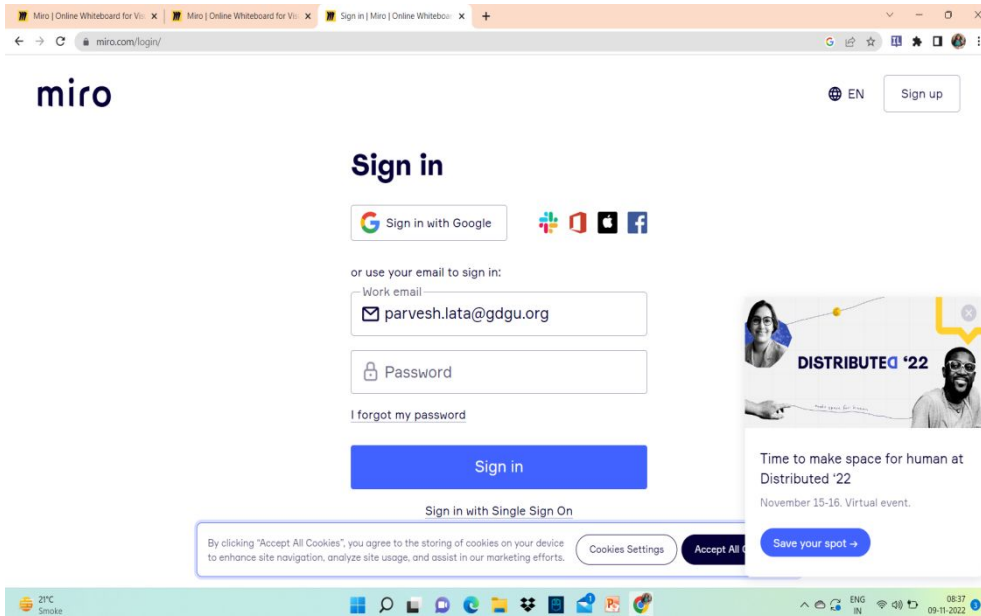
WHAT IS MIRO CONCLUSION?

- ◉ Miro can be used as a part of video meeting tools like Hopin or Whereby where you can share your Miro board (like you would your screen) and participants can add to the Miro board without opening a new browser tab.
- ◉ Miro is one of the fastest growing software tools due to the major shift to remote work catalyzed by the COVID pandemic. It really can make your meetings or workshops more visual, collaborative, and engaging.

MIRO

First of all, Login to MIRO web app at <https://miro.com/login/>. This will redirect you to your dashboard

○ SIGN IN WITH GOOGLE AND CHOOSE ACCOUNT



AFTER LOGIN THIS WINDOW OPENS

The screenshot shows the Miro dashboard interface. At the top, there are three browser tabs, all titled "Miro | Online Whiteboard for Vis...". The address bar shows "miro.com/app/dashboard/". The dashboard has a dark blue sidebar on the left with a "TE" logo, a "+" button, and sections for "Recent boards", "Starred boards", "Teacher Education..." (with a dropdown arrow and "1 user"), "Boards in this team", "Miroverse", "Projects" (with a "+" button), and "Upload from backup". The main area is titled "Create a board" and features a search bar, "Invite members" and "Upgrade" buttons, and a "Show All" link. Below the search bar is a "Recommended templates" section with eight options: "New board" (blue square with a white plus), "+ Mind Map" (purple circle with lines), "+ Kanban Framework" (yellow and green rectangles), "+ Quick Retrospective" (blue and orange squares), "+ Flowchart" (black and red flow diagram), "+ Product Roadmap" (yellow and red rectangles), "+ User Story Map Fra..." (blue and yellow rectangles), and "+ Character Icebreaker" (yellow and red rectangles). A pink arrow points to the "+ Mind Map" template. Below this is a "Boards in this team" section with a dropdown menu showing "Owned by anyone" and "Last opened", and a grid of boards. One board is visible with a red abstract image and the title "env education". A pink arrow points to the "Show All" link. At the bottom, there is a "Join the webinar" section with a "Join the webinar ->" button and a "No, thanks" button. The Windows taskbar is visible at the bottom with various icons and the system clock showing 08:39 on 09-11-2022.

miro.com/app/dashboard/

miro free

Search boards

+ Invite members Upgrade

Recent boards

Starred boards

Teacher Education... 1 user

Boards in this team

Miroverse

Projects

Upload from backup

Join the webinar ->
Join our Getting started with Miro webinar this Thursday at 8 am PTDT!
No, thanks

Get Apps

Create a board

Recommended templates

+ Mind Map

+ Kanban Framework

NEW + Quick Retrospective

+ Flowchart

+ Product Roadmap

+ User Story Map Fra...

+ Character Icebreaker

Show All

Boards in this team

Owned by anyone Last opened

env education

TEMPLATES OF MIRO APP

The screenshot displays the Miro app dashboard with a sidebar on the left and a main content area. The sidebar lists categories like 'For you', 'All templates', 'Recent', 'Popular', 'Building Blocks', 'USE CASES', 'MIROVERSE', and 'Icebreakers'. The 'USE CASES' section is expanded, showing 'Meeting & Workshops', 'Brainstorming & Ideation', 'Agile Workflows', 'Mapping & Diagramming', 'Research & Design', and 'Strategy & Planning'. The main content area features a search bar and a grid of templates. The templates shown are: 'S.C.A.M.P.E.R.' (a diagram with arrows pointing to colored boxes), 'Random Words' (a diagram with lines connecting to colored boxes), 'Concept Map' (a diagram with a central box and lines to other boxes), 'Mind Map' (a diagram with a central box and lines to other boxes), 'Customer Touchpoint Map' (a diagram with a timeline and colored boxes), and 'Customer Journey Map' (a diagram with a timeline and colored boxes). Red arrows point from the 'Brainstorming & Ideation' category to the 'S.C.A.M.P.E.R.' and 'Mind Map' templates.

For you

All templates

Recent

Popular

Building Blocks

USE CASES

Meeting & Workshops

Brainstorming & Ideation

Agile Workflows

Mapping & Diagramming

Research & Design

Strategy & Planning

MIROVERSE

Community Templates

Icebreakers **NEW**

Search templates by name, category or comp...

Show when creating a board

S.C.A.M.P.E.R.

Random Words

Concept Map

Mind Map

Customer Touchpoint Map

Customer Journey Map

21°C Smoke

ENG IN

08:43 09-11-2022

CLICK ON NEW MIND MAP FOR CREATING YOUR TEMPLATE AND CREATE TEAM BOARD

The screenshot shows the Miro dashboard interface. At the top, there are three browser tabs for "Miro | Online Whiteboard for Visi...". The address bar shows "miro.com/app/dashboard/". The dashboard includes a search bar, a "Board has been deleted Undo" notification, and buttons for "Invite members" and "Upgrade". On the left sidebar, there are sections for "Recent boards", "Starred boards", "Teacher Education..." (with 1 user), "Boards in this team", "Miroverse", "Projects", and "Upload from backup". The main area displays "Create a board" with recommended templates like "New board", "+ Mind", "+ Product Roadmap", "+ User Story Map Fra...", and "+ Character Icebreaker". A modal window is open in the center, titled "Create next team shared board", with the text "Upgrade to create private boards, and only share boards with your team when you're ready". The modal contains two buttons: "Create team board" and "Upgrade". A red arrow points to the "New board" template in the background, and a red name tag "Anna" is visible near the modal.

miro free

Search boards

Board has been deleted Undo

+ Invite members Upgrade ?

Recent boards

Starred boards

Teacher Education... 1 user

Boards in this team

Miroverse

Projects

Upload from backup

Join the webinar →
Join our Getting started with Miro webinar this Thursday at 8 am PTDT!
No, thanks

Get Apps

Create a board

Recommended templates

New board + Mind

+ Product Roadmap + User Story Map Fra... + Character Icebreaker

Show All

Owned by anyone Last opened

Create next team shared board

Upgrade to create private boards, and only share boards with your team when you're ready

Create team board Upgrade

Env Pollution

CREATE MIND MAP

[illegible]

TASK FEATURES OF MIRO APP

miro | Online Whiteboard for Visi x | Miro | Online Whiteboard for Visi x | Mind Map, Online Whiteboard fo x +

miro Mind Map ⚙️ ⬆️ 🔍 ✂️

Share

select tool
Templates
text
Sticky notes
shapes
connection lines
Comment
Frames
Pen tools
Upload
Undo
open side bar

Type something
Type something
Problem
Type something
Type something
Type something
Type something
Type something

100%

23°C Smoke 09:40 09-11-2022

UPLOAD IN MIRO APP

The screenshot displays the Miro online whiteboard interface. At the top, the browser tabs show "Miro | Online Whiteboard for Vis..." and "Mind Map, Online Whiteboard fo...". The address bar indicates the URL "miro.com/app/board/uXjVPF_bwfA=/". The Miro logo and "Mind Map" title are visible in the top left. A toolbar on the right contains icons for navigation and editing, along with a "Share" button. On the left, a vertical toolbar shows various drawing tools. A dropdown menu is open, listing upload options: "My device", "Upload via url", "Saved files", "Web Clipper", "Adobe CC", "Google Drive", "Dropbox", "Box", and "OneDrive". Annotations with arrows point to the "select tool" button, the "Templates" button, the "Upload" button, the "Undo" button, and the "open side bar" button. In the center, a mind map diagram is shown with a central node labeled "Problem". It has four main branches, each labeled "Type something". The leftmost branch further splits into two sub-branches, and the rightmost branch splits into two sub-branches. The bottom status bar shows the temperature "24°C", AQI "451.68", and the system clock "09:43 09-11-2022".

miro Mind Map

select tool

Templates

My device

Upload via url

Saved files

Web Clipper

Adobe CC

Google Drive

Dropbox

Box

OneDrive

Upload

Undo

open side bar

Type something

Type something

Type something

Type something

Problem

Type something

Type something

Type something

Type something

100%

24°C AQI 451.68

09:43 09-11-2022

MORE TOOLS IN MIRO APP

The screenshot displays the Miro online whiteboard interface. At the top, a browser tab shows the URL `miro.com/app/board/uXjVPF_bwfA=`. The Miro logo and 'Mind Map' title are in the top left. A toolbar with various icons is at the top right, including a 'Share' button. On the left, the 'Apps' sidebar is open, showing a search bar and a list of tools: Embed iFrame code, IconFinder, Stickies capture, Wireframe Library, Diagramming, Stickers and Emojis, Charts, Mind map, Tables, Card / D, Kanban, and Smartsheet. The main workspace features a mind map with a central node labeled 'Problem'. It has two pink branches on the left and three purple branches on the right, each with a placeholder text 'Type something'. A small arrow points to the central node. The bottom of the screen shows a Windows taskbar with icons for weather (24°C, Smoke), search, and several applications. The system clock in the bottom right corner indicates the time is 09:41 on 09-11-2022.

Apps

Search for apps & tools

- Embed iFrame code
- IconFinder
- Stickies capture
- Wireframe Library
- Diagramming
- Stickers and Emojis
- Charts
- Mind map
- Tables
- Card / D
- Kanban
- Smartsheet

Problem

Type something

Type something

Type something

Type something

Type something

100%

24°C
Smoke

09:41
09-11-2022

SHARING IN MIRO APP

The screenshot displays the Miro app interface. At the top, there are three browser tabs: "Miro | Online Whiteboard for Vis...", "Miro | Online Whiteboard for Vis...", and "Mind Map, Online Whiteboard fo...". The address bar shows the URL "miro.com/app/board/uXjVPF_bwfA=/". The Miro logo and "Mind Map" title are visible in the top left. A toolbar on the left contains various icons for drawing and editing. A mind map is visible on the left side of the canvas, with nodes like "select tool", "Templates", "text", "Sticky notes", "shapes", "connection lines", "Frames", "Comment", "Pen tools", "Upload", "Undo", and "open side bar". A sharing modal is open in the center, titled "To Enter name, email or invite from Slack or Gmail". It has three main sections: "Invite to team and board" with a "Can edit" dropdown and a "Copy team invite link" button; "Team access to board" with a dropdown showing "Can view", "Can comment", "Can edit", and "No access"; and "Anyone with the link" with a "No access" option. A blue box at the bottom of the modal says "Invite **unlimited members** for free. All your boards will be visible to them. [Upgrade to make boards private.](#)". At the bottom of the modal are links for "Get embed code" and "Send feedback". The background canvas shows a line drawing of a person and some text.

To Enter name, email or invite from Slack or Gmail

[Invite to team and board](#) [Can edit](#) [Copy team invite link](#)

[Team access to board](#) [Can view](#)
[Can comment](#)
[Can edit](#)
[No access](#)

[Anyone with the link](#) [No access](#)

Invite **unlimited members** for free. All your boards will be visible to them.
[Upgrade to make boards private.](#)

[Get embed code](#) [Send feedback](#)

INVITE MEMBERS IN MIRO APP

The screenshot shows the Miro app dashboard in a web browser. The browser's address bar displays 'miro.com/app/dashboard/'. The dashboard includes a sidebar with navigation options like 'Recent boards', 'Starred boards', and 'Boards in this team'. The main area features a 'Create a board' section with recommended templates and a 'Boards in this team' section. A modal window titled 'Invite to Teacher Education' is open in the center. This modal has a close button (X) in the top right corner. It includes a header 'Invite to Teacher Education' and a sub-header 'Invite from Slack or Gmail contacts'. Below this, there is an information box stating: 'Accounts on paid plans can also invite **guests**, who have access to shared boards only. [Upgrade now](#)'. The modal contains a section for 'Email addresses' with three input fields, each containing 'name@example.com'. There is a 'Send invitations' button below the input fields. At the bottom of the modal, there is a toggle switch labeled 'Enable invite link and share with your teammates' which is currently turned on. Below the toggle, there is a text input field containing the URL 'https://miro.com/welcome/Q0dFaVNXNTBta1Ri' and a 'Copy' button. The background of the dashboard is slightly dimmed. The bottom of the image shows a Windows taskbar with various application icons and system information like '25°C', 'AQI 474.48', and the date '10-19 09-11-2022'.

Miro | Online Whiteboard for Visi x Miro | Online Whiteboard for Visi x Miro | Online Whiteboard for Visi x +

miro.com/app/dashboard/

miro free

Search boards

Create a board

Recommended templates

New board + Mind

Boards in this team

Projects +

Upload from backup

Join the webinar →

Join our Getting started with Miro webinar this Thursday at 8 am PT!

No, thanks

Get Apps

Invite members Upgrade

Invite to Teacher Education

Invite from Slack or Gmail contacts

Accounts on paid plans can also invite **guests**, who have access to shared boards only. [Upgrade now](#)

Email addresses

name@example.com

name@example.com

name@example.com

Add many at once

Send invitations

Enable invite link and share with your teammates

<https://miro.com/welcome/Q0dFaVNXNTBta1Ri> Copy

Owned by anyone Last opened

25°C AQI 474.48

10-19 09-11-2022

CREATIVE TIPS FOR MAKING MAPS

- ◉ Review available visual materials such as photos, sketches, graphs, etc.
- ◉ Focus upon a visual language approach to communication.
- ◉ Consider possible formats for visual structuring.
- ◉ Relax, close your eyes and allow your mind to "free associate".
- ◉ Draw informal, thumbnail sketches of your visual impressions.
- ◉ Experiment with a variety of visual layout formats.
- ◉ Colour shapes, arrows or words for emphasis.
- ◉ Imagine a bird's eye overview of the subject matter to be presented.
- ◉ Look with fresh eyes, is the visual presentation attractive?
- ◉ Ask yourself, are these visuals compelling? Do they help convince the viewer that the subject matter is important and inviting?
- ◉ Integrate the visuals with the text. Does it work to the best advantage?
- ◉ Keep a record of the maps you do (Perhaps in your "Visual Notebook").

- ◉ The great thing about mind mapping is that one can put one's ideas down in any order, as soon as they pop into your head.
- ◉ You are not constrained by thinking in order. Simply, throw out any and all ideas, and then worry about reorganizing them later.
- ◉ The Mind Map is the external mirror of your own *radiant* or natural thinking facilitated by a powerful graphic process, which provides the universal key to unlock the dynamic potential of the brain.

- One simple way to understand a Mind Map is by comparing it to a map of a city.
- The city centre represents the main idea;
- the main roads leading from the centre represent the key thoughts in your thinking process;
- the secondary roads or branches represent your secondary thoughts, and so on.
- Special images or shapes can represent landmarks of interest or particularly relevant ideas



PRACTICE YOURSELF

THANK YOU